

- 153 1. An unmanned water surface vehicle comprising:
- 154 a gondola housing having external lift and control foils, whereby said
155 gondola housing may provide lift in water at sufficient speed, said gondola
156 including a propulsion system, and;
- 157 a superstructure hull, said superstructure hull includes a command and
158 control system capable of remote control, a navigation system,
159 a vehicle attitude control system, and a plurality of payloads and sensors; and
160 a strut connecting said gondola section and said superstructure, wherein
161 said strut includes at least one void for passage of a plurality of transmission
162 lines.
- 163 2. An unmanned water surface vehicle as in claim 1, further comprising:
164 a sonar system housed in said gondola housing.
- 165 3. An unmanned water surface vehicle as in claim 1 further comprising:
166 a payload compartment having retractable doors, and at least one payload
167 system deployable from said payload compartment housed in said gondola
168 housing.
- 169 4. An unmanned water surface vehicle as in claim 1, wherein said
170 superstructure includes at least one deployable payload system.
- 171 5. An unmanned water surface vehicle as in claim 4, wherein said
172 superstructure hull form is trimaran.
- 173 6. An unmanned water surface vehicle as in claim 1, wherein said strut
174 includes a rudder.
- 175 7. An unmanned water surface vehicle as in claim 6, wherein the interface
176 between said strut and said gondola is faired.
- 177 8. An unmanned water surface vehicle comprising:
178 a gondola housing having external lift and control foils adapted to
179 provide lift in water at sufficient speed, said gondola housing includes a

180 propulsion system, a payload compartment having retractable doors, at least
181 one payload system deployable from said payload compartment; and
182 a superstructure housing, said superstructure housing includes a power
183 generation system, a semi-autonomous command and control system, a
184 navigation system, a vehicle attitude control system, and at least one
185 deployable payload system; and
186 a vertical strut connecting said gondola housing and said superstructure
187 housing, wherein said strut includes at least one void for passage of
188 transmission, mechanical linkages and control lines.

189 9. An unmanned water surface vehicle as in claim 8, further comprising:
190 a sonar system housed in said gondola housing.

191 10. An unmanned water surface vehicle as in claim 8, wherein said
192 superstructure housing forms a trimaran hull.

193 11. An unmanned water surface vehicle as in claim 8, wherein said strut
194 includes a rudder.

195 12. An unmanned water surface vehicle as in claim 11, wherein the interface
196 between said strut and said gondola is faired.

197 13. An unmanned water surface vehicle comprising:
198 a gondola housing having external lift and control foils, adapted to
199 provide lift in water at sufficient speed, said gondola housing includes a
200 propulsion system, a payload compartment, at least one payload system
201 deployable from said payload compartment; and
202 a superstructure housing adapted to float on the water at sub foil lifting
203 speeds, said superstructure housing includes a power generation system, a
204 command and control system, a navigation system, a vehicle attitude control
205 system, and a plurality of sensors; and
206 means for connecting said gondola housing and said superstructure housing.

- 207 14. An unmanned water surface vehicle as in claim 13, further comprising:
208 a sonar system housed in said gondola housing.
- 209 15. An unmanned water surface vehicle as in claim 13, wherein said
210 superstructure includes at least one deployable payload system.
- 211 16. An unmanned water surface vehicle as in claim 13, wherein said means for
212 connecting said gondola and said superstructure comprises a faired strut.
- 213 17. An unmanned water surface vehicle as in claim 16, wherein said strut
214 includes a rudder.